Thermochimica Acta, 240 (1994) v–vi
Elsevier Science B.V., Amsterdam

CONTENTS

(*Abstracted/Indexed in: Curr. Contents: Phys., Chem. Earth Sci.; Eng., Technol. Appl. Sci., Chem. Abstr., PASCAL/CNRS*)

REGULAR PAPERS

Thermodynamics and Calorimetry

Some remarks on the interactions of $NaBPh_4$ and Ph_4PX with solvents
M. Jóźwiak and S. Taniewska-Osińska (Łodż, Poland) 1

The thermal behaviour of potential polymeric precursors for silicon carbide fibres
S.M. Bushnell-Watson and J.H. Sharp (Sheffield, UK) 11

Application of a Simon-type equation to the relationship between glass transition temperature and pressure for polymers
K. Takamizawa, H. Toratani (Fukuoka, Japan) and F.E. Karasz (Amherst, MA, USA) 23

Calculations of quaternary liquid–liquid equilibria by use of a new local composition model
I. Nagata (Kanazawa, Japan) and K. Takeuchi (Narashino, Japan) 31

Estimation of the thermodynamic properties of nitroguanidine, hexahydro-1,3,5-trinitro-1,3,5-triazine and octahydro-1,3,5,7-tetranitro-1,3,5,7-tetrazocine in the gas phase
O.V. Dorofeeva (Moscow, Russian Federation) and P.I. Tolmach (Morris Plains, NJ, USA) 47

The pyrolytic decomposition of aluminium-tri-*sec*-butoxide during chemical vapour deposition of thin alumina films
V.A.C. Haanappel, H.D. van Corbach, T. Frasen and P.J. Gellings (Enschede, The Netherlands) 67

The influence of mass transfer in DTG combustion tests
B. Stanmore, P. Gilot and G. Prado (Mulhouse, France) 79

Thermochemistry of adducts of bidentate N- and O-ligands with arsenic trihalides
P.O. Dunstan (São Paulo, Brazil) 91

Thermal Analysis

The chemistry and mechanism of thermal degradation reactions of oxovanadium(IV) complexes of dithiocarbamates containing a thiadiazole ring
S. Srivastava, V. Srivastava, K. Chaturvedi, O.P. Pandey and S.K. Sengupta (Gorakhpur, India) 101

Thermal behavior of substituted pyridine adducts of porphyrinatocobalt(II) complexes in the solid state
H. Imai, A. Sunohara, S. Nakagawa, H. Munakata, T. Uemori and E. Kyuno (Kanazawa, Japan) 109

The application of constant rate thermal analysis to the study of the thermal decomposition of copper hydroxy carbonate
M. Reading (Slough, UK) and D. Dollimore (Toledo, OH, USA) 117

Dynamic evaporation behaviour of diketonate compounds of yttrium, copper and barium
K.-S. Chou and G.-J. Tsai (Hsinchu, Taiwan) 129

Effect of sample mass on the kinetics of thermal decomposition of a solid. Part 3. Non-isothermal mass-loss process of molten NH_4NO_3
N. Koga and H. Tanaka (Hiroshima, Japan) 141

The thermal and temperature dependence of the electrical conductivity of phenylhydrazo and benzeneazo benzoylacetones and their isonicotinoyl hydrazones
R.M. El-Bahnasawy (Shebin El-Kom, Egypt) 153

Development of a new thermogravimetric system for performing constant rate thermal analysis (CRTA) under controlled atmosphere at pressures ranging from vacuum to 1 bar
M.D. Alcalá, J.M. Criado, F.J. Gotor, A. Ortega, L.A. Perez Maqueda and C. Real (Seville, Spain) 167

Thermal studies of some transition metal complexes of phenylazoacetoacetanilide (HPAAC)
A.Y. Desai and A.D. Sawant (Bombay, India) 175
Thermal properties of sodium–light-lanthanoid double sulfate monohydrates
Ö. Kolcu and B. Zümreoğlu-Karan (Ankara, Turkey) 185
Investigation concerning bimetallic catalysts using nonisothermal (temperature programmed reduction (TPR) and temperature programmed desorption (TPD)) and isothermal methods. Part 2. Nickel–chromium prereduced catalysts
M. Teodorescu, A.C. Banciu, I. Sitaru and E. Segal (Bucharest, Romania) 199
Correlation and prediction of excess enthalpies of ester + *n*-alkane systems using the UNIFAC model
E. Siimer and L. Kudryavtseva (Tallinn, Estonia) 207
Preparation, structural characterisation, thermal and electrical studies of complexes of cobalt, nickel and copper with methyl-3-pyridyl-carbamate
J.R. Allan, A.D. Paton and K. Turvey (Edinburgh, UK) 215
Interaction of $(NH_4)_2SO_4$ and $FeSO_4$ with metal oxides and ferrites
B.S. Boyanov (Plovdiv, Bulgaria) 225
Polymers from renewable resources. Part 3. Thermal analysis of the interpenetrating polymer networks derived from castor oil, polyurethane–polyacrylates
T. Pattnaik, P.L. Nayak, S. Lenka (Cuttack, India), S. Mohanty and K.K. Rao (Bhubaneswar, India) 235
Influence of pressure on the shape of TG and controlled transformation rate thermal analysis (CRTA) traces
J.M. Criado, A. Ortega (Seville, Spain), J. Rouquerol and F. Rouquerol (Marseille, France). 247

Other topics
Diesel particulate characterisation by vacuum microbalance techniques
C.R. Seebold, D.R. Glasson, G.E. Millward (Devon, UK) and M.A. Graham (Peterborough, UK) 257

Author Index 265

Subject Index 267